University of Georgia - Undergraduate/Graduate Dual Degree Pathway Proposal (Double Dawgs)

Dual degree pathway proposals include more than one degree. Please provide the following information for each unit involved:

Dual Degree Pathway (Major(s) and Degrees):	
Computer Science BS/MS	
Undergraduate Major Information	**Graduate Major Information**
*Undergraduate Major Name and Degree: Bachelor of Science(BS) in Computer Science	*Graduate Major Name and Degree: Master of Science(MS) in Computer Science
Undergraduate Major Department Name: Computer Science	Graduate Major Department Name: Computer Science
*Undergraduate Major School/College Name: Franklin College of Arts & Sciences	*Graduate Major School/College Name: Franklin College of Arts & Sciences
*Undergraduate Major Advising Contact (Name, Office, Department, Phone Number): Bradley Barnes, 215 Boyd GSRC, 706 583 0826	*Graduate Major Advising Contact (Name, Office, Department, Phone Number): Hamid Arabnia, 413 Boyd GSRC, 706542 3480
*Effective Semester for Dual Degree Program: Fall 2017	
*Dual Degree Pathway Contact(s) (Name, Email, Phone Number, Department): Thiab Taha , trtaha@uga.edu, 706542 3455, Computer Science Contact for person completing the form if different from Dual Degree Pathway Contact(s): (Name, Email, Phone Number, Department):	

*Indicates required field.

Curriculum:

It is important to ensure that the integrity of each individual program is maintained when selecting courses (maximum 12 credit hours) that may be used to satisfy the requirements of both programs. Please provide the following information:

- Include the following dual degree requirements:

    o Specify which graduate-level courses will be used to satisfy undergraduate program requirements.

      Group 1) CSCI 6050: Software Engineering or CSCI 6370 Database Management
      Group 2) CSCI 6720: Computer Systems Architecture
      Group 3) CSCI 6470 Algorithms or CSCI 6480 Approximation Algorithms or
                CSCI 6610 Automata and Formal Languages.
      Student needs to take one course from each of the above three groups.

    o Provide any additional requirements that are unique to the dual degree program, such as certain courses or groups of courses (e.g., Area of Emphasis) that students must complete and/or any limitations on course selection.

      Students must take one of these courses: CSCI 4570/ 6570: Compilers (4) or CSCI 4760/6760: Computer Networks (4) or 4730/6730: Operating Systems (4)

      Student must take at least 12 CSCI credit hours at the 8000-level (i.e., at least 3 CSCI 8000-level courses).

      Student must take a one credit hour of CSCI 8990 Research Seminar.

      The candidate must register for CSCI 7000 Master's research for at least **5** hours of credit while working on research**.**

Provide a sample program of study for the dual degree program.

(see attached sample)

Admission Requirements:*

Admission:

- Specify how students will be admitted to the dual degree program:
    o Address how and when students will apply to the dual degree program.
      After a student has 60-90 hours in the BS-CS program, they will be eligible to apply to the dual degree (BSCS/MSCS) program.

    o Include specific admittance requirements, such as coursework, GPA, and required tests.

Students who have taken the GRE with a score of 285 and a cumulative GPA of 3.0 or higher and completed the following courses or equivalent with a C grade or better will be eligible for admission to the dual degree program:
CSCI 1302 Software Development, CSCI 2670 Introduction to Theory of Computing, CSCI 2720 Data Structure, MATH 2250 Calculus I, CSCI 3030 Computing, Ethics and Society

Admission to Graduate Program

- Specify admission requirements for the graduate degree program.
  Students who have taken the GRE with a score of 285 and a cumulative GPA of 3.0 or higher and completed the following courses or equivalent with a C grade or better will be eligible for admission to the dual degree program:
  CSCI 1302 Software Development, CSCI 2670 Introduction to Theory of Computing, CSCI 2720 Data Structure, MATH 2250 Calculus I, CSCI 3030 Computing, Ethics and Society

*Admission requirements for the dual degree pathway may be different from the admission requirements for the graduate degree program.

Career and Academic Opportunities

There exists excellent opportunities for students graduating with both Bachelors and Masters degrees in Computer Science. The Masters-level provides several important advantages. First the Project Course, CSCI 7000, allows students to work closely with a faculty member on a significant project. Such experience is highly valued by industry and will be helpful in interviews. Second, Masters graduates will be in a better position to assume leadership positions in the computer and information technology fields. Positions include Team Leader, Project Leader all the way up to Chief Information Officer (CIO). Third, the additional advanced coursework (several of which cover material that is in high demand) will provide advantages for career advancement. Fourth, for those students wishing to pursue a doctoral degree in a highly competitive department, having a five year dual Bachelors-Masters degree will certainly be an advantage. Further, the project work may result in a publication that will also help in the application process. Finally, on payscale.com the average starting salary for Software Developers (SD), Software Engineers (SE) and Senior Software Engineers (SSE) increases by an average of 15%, 10% and 10%, respectively, with SSE's having Masters degrees averaging an annual salary of over $100,000.

Resources:

- Describe any additional resources required to implement the dual degree pathway. If additional resources are needed, indicate how such needs will be addressed.
  NONE

Note: Assessment will not be addressed for the dual degree pathway, as each degree will be assessed as part of the individual program review process.

Completed and signed dual degree pathway proposal forms should be submitted to the Office of Curriculum Systems at currsys@uga.edu or 319 New College.

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Signature Page- Dual Degree Program Proposal

Dual Degree Program (Majors and Degrees):

(Example: Accounting BBA/Accounting MAcc)

Effective Date for Dual Degree Program: Fall 2017

Dual degree program proposals must be approved by each unit involved in offering the program. If multiple departments and schools/colleges are involved, signatures from each unit must be provided. The form may be signed digitally or printed and signed.

Undergraduate Major Department

Department Name: Computer Science

Department Head Name (print): Thiab Taha

Department Head (sign & date): _____

Undergraduate Major School/College

School/College Name: Franklin College of Arts & Science

Dean Name (print): Alan Dorsey

Dean (sign & date): _____

Graduate Major Department

Department Name: Computer Science

Department Head Name (print): Thiab Taha

Department Head (sign & date): _____

Graduate Major School/College

School/College Name: Franklin College of Arts and Sciences

Dean Name (print): Alan Dorsey

Dean (sign & date): _____

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